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Derwent

Title:

Original

Title:

Assignee:

**Photochemical conversion of hop extracts in liq. or carbon di:oxide -
by irradiation under pressure to convert alpha acids to iso:alpha acids**

**FR2590589A1: NOUVEAU PROCEDE DE TRANSFORMATION
PHOTOCHIMIQUE D'EXTRAITS DE HOUBLON ET DISPOSITIF POUR LA
MISE EN OEUVRE DE CE PROCEDE.**

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Inventor:
Accession/
Update:
IPC Code:
Derwent Classes:
Manual Codes:

ANDRE J C; SAID A; VIRIOT M L;

1987-193400 / 198728

B01J 19/08 ; C07C 45/67 ; C07C 49/74 ; C12C 3/00

D16;

D05-B(Brewing, ethanolic fermentation [general and others])

Derwent
Abstract:

(FR2590589A) Photochemical conversion of hop extracts obtd. by treating hops with liq. or supercritical CO2 involves photochemical irradiation under pressure of extracts contg. alpha and beta acids in soln. in liq. or supercritical CO2, to cause quantitative conversion of the alpha acids into iso-alpha acids. Pref. the molar concn. of the hop extract is 10 power (-3) to 10 power (-2)/1, and the CO2 soln. may contain a small amt. of a co-solveco-solvent, e.g. ethanol. Pref. treatment is at 50-300 bars and 0-75 deg.C, using radiation of wavelength 250-450nm. Irradiation is by photon emitter, which is a laser, discharge lamp, incandescence lamp, or the sun, placed outside the reactor. Or the radiation may be emitted by a non-stigmatic source of photons inside the reactor and in the soln., with radiation below 330nm and above 370nm eliminated by an optical filter. The radiation giving optimum yield is selected by a selective optical filtration system; opt., the radiation giving max. yield during the course of the reaction is selected by a selective optical filtration system as a function of the progress of the reaction. Selection may be by a fluorescent relay formed by a fluorescent liq. placed between the source of radiation and the reactor. The radiation source may be doped by a metallic halide to modify the spectrum of the rays emitted by the source.
USE/Advantage - Chemical conversion is avoided. Conversion to iso-alpha acids is more rapid, and the steps of solubilisation and sepn. are avoided. Hops are used in mfr. of beer.

Dwg.0/9

Family	PDF Patent	Pub. Date	Derwent Update	Pages	Language	IPC Code
	FR2590589A *	1987-05-29	198728	26	French	B01J 19/08
	Local appls.: FR1985000017436 Filed:1985-11-26 (85FR-0017436)					

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INPAD
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Legal S
tatus:

Priority Number	Application Number	Filed	Original Title
	FR1985000017436	1985-11-26	

Unlinked Registry
Numbers:
Title Terms:
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1066U

PHOTOCHEMICAL CONVERT HOP EXTRACT LIQUID CARBON DI
OXIDE IRRADIATE PRESSURE CONVERT ALPHA ACID ISO
ALPHA ACID

Derwent Searches:	Boolean Accession/Number Advanced
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